

What is claimed is:

1. A multi-output power conversion circuit supplying electric power from one DC power source to a polyphase AC motor and another device with the polyphase AC motor, comprising:
5 a transformer of which the primary coil is connected to a neutral point of the polyphase AC motor and of which the secondary coil is connected to the other device.
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2. The circuit according to claim 1, wherein said polyphase AC motor is a first three-phase AC motor; and
15 said other device is any of an auxiliary power source, a DC motor, and a second three-phase AC motor.
3. The circuit according to claim 1, wherein
20 an AC voltage from the transformer is controlled by changing a command value when the polyphase AC motor is drive-controlled.
4. A multi-output power conversion circuit
25 supplying electric power from one DC power source

to a polyphase AC motor and another device with the polyphase AC motor, comprising:

5 a transformer, one terminal of which primary coil is connected to a neutral point of the polyphase AC motor, another terminal of which the primary coil is connected to a portion of half potential of the DC power source, and which the secondary coil is connected to the other device.

10 5. The circuit according to claim 1, wherein a capacitor is connected in series to said transformer.

15 6. The circuit according to claim 4, wherein a capacitor is connected in series to said transformer.

20 7. A multi-output power conversion circuit supplying electric power from one DC power source to a polyphase AC motor and another device with the polyphase AC motor, comprising:

25 a capacitor, one of which terminals is connected to a neutral point of the polyphase AC motor, and another terminal of which is connected to the other device.

8. A multi-output power conversion circuit supplying electric power from one DC power source to a polyphase AC motor and another device with the polyphase AC motor, comprising:

- 5 a transformer of which the primary coil is connected to a neutral point of the polyphase AC motor and of which the secondary coil is connected to the other device; and
- 10 a capacitor, one of which terminals is connected to a neutral point of the polyphase AC motor, and another terminal of which is connected to a current phase driving the polyphase AC motor.

15 9. A power source which is connected to a DC power source and supplies a power source to a polyphase AC motor and another device, comprising:

- a conversion circuit converting output of the DC power source into an AC to be provided for the polyphase AC motor;
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a transformer connected to a neutral point of the polyphase AC motor; and

- a rectifying circuit rectifying output of the transformer and supplying the rectified output to the other device.
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